

GASTIGHT GASKET ASSEMBLY FOR GAS CHANNELS OF FUEL CELL STACK

ABSTRACT OF THE DISCLOSURE

A gasket assembly for gas channels of a fuel cell stack is disclosed. A central part of a bipolar plate of the fuel cell stack is formed with a plurality of channels which is connected to a gas passage via a collective channel and a plurality of communication channels. A reception region is formed across a middle section of the communication channels and a pressure resistant packing is mounted in the reception region, forming a smooth and flat plane with the ridges of the partitions outside the reception region. A gasket is mounted between the bipolar plate and the membrane electrode assembly and acts with the packing to form a gastight gasket assembly in the form of a dual gasket structure.